

Designation: E709 - 21

Standard Guide for Magnetic Particle Testing¹

This standard is issued under the fined designation E709, the number immediately following the designation indicates the year of original adoption on, in the case of revision, the year of last revision. A number in parentheses indicates the year of last engagement. A superior or requirement endicates an editorial change since the last revisions or requirement.

1. Scope*

1.1 This guide² covers techniques for both dry and wet magnetic particle testing, a nondestructive method for detecting cracks and other discontinuities at or near the surface in ferromagnetic materials. Magnetic particle testing may be applied to raw material, semifinished material (billets, blooms, castings, and forgings), finished material and welds, regardless of heat treatment or lack thereof. It is useful for preventive maintenance testing.

1.1.1 This guide is intended as a reference to aid in the preparation of specifications/standards, procedures and techniques.

1.2 This guide is also a reference that may be used as follows:

1.2.1 To establish a means by which magnetic particle testing, procedures recommended or required by individual organizations, can be reviewed to evaluate their applicability and completeness.

1.2.2 To aid in the organization of the facilities and personnel concerned in magnetic particle testing.

1.2.3 To aid in the preparation of procedures dealing with the examination of materials and parts. This guide describes magnetic particle testing techniques that are recommended for a great variety of sizes and shapes of ferromagnetic materials and widely varying examination requirements. Since there are many acceptable differences in both procedure and technique, the explicit requirements should be covered by a written procedure (see Section 21).

1.3 This guide does not indicate, suggest, or specify acceptance standards for parts/pieces examined by these techniques. It should be pointed out, however, that after indications have been produced, they must be interpreted or classified and then evaluated. For this purpose there should be a separate code, specification, or a specific agreement to define the type, size, location, degree of alignment and spacing, area concentration,

and orientation of indications that are unacceptable in a specific part versus those which need not be removed before part acceptance. Conditions where rework or repair is not permitted should be specified.

1.4 This guide describes the use of the following magnetic particle method techniques.

1.4.1 Dry magnetic powder (see 8.4),

1.4.2 Wet magnetic particle (see 8.5),

1.4.3 Magnetic slurry/paint magnetic particle (see 8.5.7), and

1.4.4 Polymer magnetic particle (see 8.5.8).

1.5 Personnel Qualification—Personnel performing examinations in accordance with this guide should be qualified and certified in accordance with ASNT Recommended Practice No. SNT-TC-1A, ANSI/ASNT Standard CP-189, NAS 410, or as specified in the contract or purchase order.

1.6 Nondestructive Testing Agency—If a nondestructive testing agency as described in Specification E543 is used to perform the examination, the nondestructive testing agency should meet the requirements of Specification E543.

1.7 Units—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.8 Warning—Mercury has been designated by many regulatory agencies as a hazardous material that can cause serious medical issues. Mercury, or its vapor, has been demonstrated to be hazardous to health and corrosive to materials. Caution should be taken when handling mercury and mercury containing products. See the applicable product Safety Data Sheet (SDS) for additional information. Users should be aware that selling mercury or mercury containing products, or both, into your state or country may be prohibited by law.

1.9 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.10 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the

¹ This guide is under the jurisdiction of ASTM Committee E07 on Nondestructive Testing and is the disease responsibility of Subcommittee E07.03 on Liquid Penetrant and Magnetic Particle Methods.

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³ For ASMII Boiler and Persunt Vessel Code Applications, see related Guide SE-709 in Section II of that Code.

Magnetic Particle Inspection Study Guide

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Magnetic Particle Inspection Study Guide:

Magnetic Particle Inspection M.J. Lovejoy, 2012-12-06 During the years since this book was first published in 1993 there have very few developments in the technology of magnetic particle inspection apart from improvements in instrumentation which has made the measurement of peak values of time varying currents practicable. The major changes have arisen from health and safety and environmental concerns These involve chemicals and exposure of personnel to air borne electromagnetic fields and long wave ultraviolet UY A The changes in the acceptability of certain volatile halogenated hydrocar bons which led to the banning of 1 1 1 thichloroethane in 1995 were evident in 1993 The present discussions concerning the emissions of volatile organic compounds VOCs in general was also current and has now reached a stage where the effects of these deliberations will become evident over the next few years Concerns over the exposure of personnel to airborne electromagnetic fields has been current for some years as has discussions to the effects of long wave ultraviolet UY A on human skin Recommendations as to maximum permit ted exposures over periods of time to both of these phenomena have been put forward and will doubtless form the basis of future legislation on the matter A number of new specifications have appeared notably EN European and ISO specifications and some of these are still in preparation Generally their impact will be minimal since these specifications are largely derived from existing documentation **Engineering Dynamics Exam Study Guide** cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com Magnetic Particle Inspection M.J. Lovejoy, 1993-06-30 During the years since this book was first published in 1993 there have very few developments in the technology of magnetic particle inspection apart from improvements in instrumentation which has made the measurement of peak values of time varying currents practicable The major changes have arisen from health and safety and environmental concerns These involve chemicals and exposure of personnel to air borne electromagnetic fields and long wave ultraviolet UY A The changes in the acceptability of certain volatile halogenated hydrocar bons which led to the banning of 1 1 1 thichloroethane in 1995 were evident in 1993 The present discussions concerning the emissions of volatile organic compounds VOCs in general was also current and has now reached a stage where the effects of these deliberations will become evident over the next few years Concerns over the exposure of personnel to airborne electromagnetic fields has been current for some years as has

discussions to the effects of long wave ultraviolet UY A on human skin Recommendations as to maximum permit ted exposures over periods of time to both of these phenomena have been put forward and will doubtless form the basis of future legislation on the matter A number of new specifications have appeared notably EN European and ISO specifications and some of these are still in preparation Generally their impact will be minimal since these specifications are largely derived from existing documentation Quality Technology Handbook R S Sharpe, J West, D S Dean, 2017-03-28 Quality Technology Handbook Fourth Edition offers a wide discussion on technology and its related subtopics After giving some information on its background content and authors the book then informs the readers about the quality problem check list and enumerates the questions one has to ask to ensure that a problem will be solved This part is followed by a discussion on non destructive testing NDT and the several committees formed for it among which are the British National Committee and the Harwell NDT Center The book also includes information on two organizations that are closely related to the topic the Institute of Quality Assurance IQA and The Welding Institute TWI A directory of international organizations related to quality assurance and non destructive testing is provided in the latter part of the text The book serves as valuable reference to undergraduates or postgraduates of courses that are related to science and technology Asnt Level II Study Guide Charles W. Eick, 2003-01-01 FE Mechanical Exam Prep ,2025-02-16 Have you ever wondered what it takes to pass one of the most challenging engineering exams on your first attempt What if you could transform complex engineering principles into clear practical knowledge that gives you the confidence to tackle any question This comprehensive guide is designed for aspiring engineers who want to master every aspect of the FE Mechanical Exam Covering a broad spectrum of topics from fluid mechanics thermodynamics and heat transfer to mechanics of materials machine design and engineering ethics this book breaks down each subject into clear easy to understand explanations Every concept is reinforced with real world applications ensuring you not only pass the exam but also build a strong foundation for your engineering career Success on this exam isn t just about memorization it s about strategic problem solving and efficient time management That s why this book goes beyond theory offering proven study techniques calculator shortcuts and exam day strategies that will help you work smarter not harder Whether you re struggling with complex equations or need guidance on how to effectively use the NCEES FE Reference Handbook this guide provides step by step instructions to maximize your performance What truly sets this book apart is the 200 carefully crafted practice questions that simulate the real exam experience Each question is accompanied by a detailed explanation helping you understand not just the correct answer but also the reasoning behind it These practice problems are designed to sharpen your analytical skills reinforce key concepts and eliminate guesswork ultimately giving you the edge you need on exam day Passing the FE Mechanical Exam is the first step toward becoming a licensed Professional Engineer PE and with the right preparation you can achieve this milestone with confidence Are you ready to take control of your future and prove that you have what it takes to succeed This book will guide you every step of the way

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material sourcing fabrication essentials welding related items NDT activities erection of pipes pre commissioning commissioning post commissioning project management and importance of ISO Management systems in oil and gas piping projects This handbook assists contractors in ensuring the right understanding and application of protocols in the project One of the key assets of this handbook is that the technical information and the format provided are practically from real time oil and gas piping projects hence the application of this information is expected to enhance the credibility of the contractors in the eyes of the clients and to some extent simplify the existing operations Another important highlight is that it holistically covers the stages from the raw material to project completion to handover and beyond This will help the oil and gas piping contractors to train their project management staff to follow the best practices in the oil and gas industry Furthermore this piping handbook provides an important indication of the important project related factors hard factors and organizational related factors soft factors to achieve the desired project performance dimensions such as timely completion cost control acceptable quality safe execution and financial performance Lastly the role of ISO management systems such as ISO 9001 ISO 14001 and OHSAS 18001 in construction projects is widely known across the industry however oil and gas specific ISO quality management systems such as ISO 29001 and project specific management systems such as ISO 21500 are not widely known in the industry which are explained in detail in this handbook for the benefit of the oil and gas construction organizations Features Covering the stages from the raw material to project completion to handover and beyond Providing practical guidelines to oil and gas piping contractors for training purposes and best practices in the oil and gas industry Emphasizing project related factors hard factors and organizational related factors soft factors with a view to achieve the desired project performance Highlighting the roles of ISO management systems in oil and gas projects Steel **Forgings** ,1997 Associations' Publications in Print ,1984 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations Scientific and Technical Aerospace Reports ,1992 **Energy Research Abstracts** ,1989 **Publications** United States. National Bureau of Standards, 1986

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